AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

(Currently Amended) A method of discovering Cisco Discovery
 Protocol (CDP) nodes in a network in real time comprising:

seeding a discovery process using at least one of querying a user to provide a first CDP node information and searching a database of nodes previously discovered by a network manager to identify a first CDP node, a depth of recursion from the first CDP node being limited to limit the discovery process;

transmitting a signal from the network manager to the first CDP node of the network, wherein the signal requests information regarding additional CDP nodes known to the first CDP node;

receiving a response that identifies the additional CDP nodes known to the first CDP node;

repeating the transmitting and receiving steps for each additional CDP node identified; and

storing a list containing addresses of all identified CDP nodes.

- 2. (Original) The method of claim 1, wherein each signal is an SNMP message.
 - 3. (Original) The method of claim 1, further comprising:

limiting a depth of a search for additional CDP nodes.

4. (Original) The method of claim 3, wherein limiting the depth of the search comprises:

establishing a recursion depth limit;

tracking the depth of recursion into the network from the first CDP node; and preventing any additional signals from being transmitted to newly discovered CDP nodes once the depth of recursion equals the recursion depth limit.

- 5. (Original) The method of claim 1, further comprising: limiting a breadth of a search for additional CDP nodes.
- 6. (Original) The method of claim 5, wherein limiting the breadth of the search comprises:

establishing a maximum hop limit;

tracking a number of hops from the first CDP node; and preventing any additional signals from being transmitted to newly discovered CDP nodes once the number of hops equals the maximum hop limit.

- 7. (Original) The method of claim 1, further comprising: limiting a breadth and a depth of a search for the additional CDP nodes.
- 8.-9. (Canceled)

- 10. (Original) The method of claim 1, further comprising: performing the discovery process based upon a user's request or at fixed time intervals.
 - (Original) The method of claim 1, further comprising:
 displaying the identified CDP nodes in a Graphical User Interface.
- 12. (Original) The method of claim 1, further comprising:

 modifying the list in real time to facilitate real time display of identified CDP

 nodes as each CDP node is identified, wherein the real time display is presented as
 a graphical topology of the network on a Graphical User Interface.
- 13. (Original) The method of claim 1, wherein the network manager is Network Node Manager.
- 14. (Original) The method of claim 1, wherein the list further comprises at least one of information on the interrelation of the identified CDP nodes, device identification information, and device type information.
- 15. (Currently Amended) A method for discovering CDP nodes of a network comprising:

seeding a discovery process using at least one of querying a user to provide a first CDP node information and searching a database of nodes previously discovered

by a network manager to identify a first CDP node, a depth of recursion from the first CDP node being limited to limit the discovery process;

transmitting a SNMP message from the network manager to the first CDP node of the network to obtain information from the first CDP node;

recursively transmitting a SNMP message to at least one additional CDP node of the network identified to the network manager by the information obtained from the first CDP node; and

storing a list containing information of all identified CDP nodes.

16. (Currently Amended) A computer-based system that discovers Cisco Discovery Protocol (CDP) nodes in a network in real time comprising:

logic that seeds a discovery process using at least one of querying a user to provide a first CDP node information and searching a database of nodes previously discovered by a network manager to identify a first CDP node, a depth of recursion from the first CDP node being limited to limit the discovery process;

logic that transmits a signal from the network manager to the first CDP node of the network, wherein the signal requests information regarding additional CDP nodes known to the first CDP node;

logic that receives a response that identifies the additional CDP nodes known to the first CDP node;

logic that repeats the transmitting and receiving steps for each additional CDP node identified; and

logic that stores a list containing addresses of all identified CDP nodes.

- 17. (Original) The computer-based system of claim 16, further comprising: logic that limits a depth and a breadth of a search for additional CDP nodes.
- 18. (Original) The computer-based system of claim 17, wherein limiting the depth of the search comprises:

logic that establishes a recursion depth limit;

logic that tracks the depth of recursion into the network from the first CDP node; and

logic that prevents any additional signals from being transmitted to newly discovered CDP nodes once the depth of recursion equals the recursion depth limit.

19. (Original) The computer-based system of claim 17, wherein limiting the breadth of the search comprises:

logic that establishes a maximum hop limit;

logic that tracks a number of hops from the first CDP node; and logic that prevents any additional signals from being transmitted to newly discovered CDP nodes once the number of hops equals the maximum hop limit.

20. (Canceled)